

# PMS VEE MIXER<sup>®</sup>

## V Shell/ Twin Shell Mixer



PMS VEE MIXER, is suitable for gentle blending of dense powder and abrasive materials. It has been recognized as an efficient and economical tumbler with its durability and minimum maintenance requirement. Our product series encompass system operating on the laboratory scale up to production scale, working capabilities ranging from 10 to 2,000 liter.

### Theory of Operation

PMS VEE MIXER, takes the form of a cylinder that has been cut in half, at approximately 45-degree angle with its long axis, and then rejoined to form a V shape. As the mixer rotates, the two inclined cylinders intermesh their flow, causing a radical blending action. In addition, an agglomerate breaking bar, located in the blender rotational axis, improves agitation of powder bed.

All contact parts, including V-Shape chamber, agglomerate breaking device and inlet port covers, are made of stainless steel SUS 304 and mirror polished. Product contact parts are completely separated from technical components, assuring oil and grease free in the operating chamber. Secured inlet port covers and outlet port butterfly valve ensure dust tight operation.

The raw material is fed through top inlet ports by simply unclamp the inlet port cover. Once the material is properly mixed, unload finish product through bottom discharge port into product container. For process reproducibility, mixing time can be set to determine process end-point. Process could not be started unless safety guard is firmly closed.



V300

### Application

- Pharmaceuticals: Powder, Granules, Pellets, Herbal Medicine
- Cosmetics: Face powder, Body powder
- Food: Seasoning, Health food, Flavor, Candy, Additives, Confectionery, Spices,
- Sugar, Salt, Starch
- Agricultural: Animal Feed, Premix, Pesticides, Fertilizers
- Chemical: Plastic powder, Polyester chips, Pigments and Color concentrates, Dyes
- Other: Metal powders, Paints, Detergents, Minerals

### Benefit

- ✓ cGMP Compliance
- ✓ Efficient and Economical
- ✓ Reproducible of Product quality
- ✓ Low Power Consumption
- ✓ Durable machine components
- ✓ Easy to Operate, Clean and Maintenance
- ✓ Safe and Clean working environment



## Standard Features

- All contact parts made of stainless steel SUS 304
- One set of agglomerate breaking device, made of stainless steel SUS 304
- Single Speed, non-explosion proof geared motor
- Discharging port with manual butterfly valve
- Electrical control box with semi-automatic control system and safety devices
- Safety guard located in front of the machine

## Option (upon request)

- All contact parts made of stainless steel SUS 316
- Explosion proof motors and Explosion proof control unit
- Special design for loading system, i.e. Vacuum transfer unit or in-line operation
- Discharge height and Feature to suite specific discharge requirements or in-line operation
- Side Platform and Ladder
- Validation Document: Installation Qualification (IQ)/ Operational Qualification (OQ)

## Specification

	V 10	V 150	V 300	V 600	V 800	V 1600	
Total Volume (Liter)	18	275	500	1,075	1,410	2,870	
Working Capacity (Liter)	10	165	300	645	850	1,725	
Driving Unit (KW)	0.37	1.5	2.2	5.5	7.5	9.2	
Speed (RPM)	35	23	19	15	14	11	
Overall Dimension (mm)	W	400	1,915	2,275	2,800	3,000	3,750
	L	1,150	2,250	2,600	3,200	3,500	4,300
	H	1,150	2,250	2,600	3,200	3,500	4,300

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